ABSTRACT

A process provides automated coherent documentation of the construction of variably configured assemblies and systems, which consist of mechanical, electrical or electronic subassemblies or components using relational database software. A relational database software program is used to define the location of subassemblies or components within the final assembly or system, define important configuration information for the subassemblies and define the interconnection of the subassemblies within the assembly or system. This process improves upon prior art utilizing schematics, assembly drawings, parts lists and configuration logs based upon ANSI standard documentation practices by reducing the time required to produce such documentation and improving the accuracy of such documentation. The use of a relational database allows for various data manipulations that may be desirable such as error prevention, error detection, data analysis and specified searches.